

# SIL-GUARD® (0-2-5)

WITH 7% POTASSIUM SILICATE & 2% PHOSPHITE

- Improves Plant's Turgidity
- Improves Crop Quality and Vigor
- Increases plant's Resistance to Disease

#### GUARANTEED ANALYSIS:

Available Phosphate (P<sub>2</sub>O<sub>5</sub>) ..... 2%  
Soluble Potash (K<sub>2</sub>O) ..... 5%

#### DERIVED FROM:

Potassium Silicate, Potassium Carbonate, Potassium Phosphite, Potassium Humate, Phosphoric Acid  
Weight per gallon ..... 9 lbs.  
Weight per Liter ..... 1.08 Kg  
pH @ 20 deg. C ..... 12

#### SOIL AMENDING INGREDIENTS

2%.....Humic Acid (derived from Leonardite)

Purpose: For soil conditioning

#### CONTAINS BENEFICIAL SUBSTANCES

7%.....Silica (SiO<sub>2</sub>)

#### PRODUCT DESCRIPTION:

Sil-Guard is a liquid supplement that contains soluble potassium silicate, two important elements to help strengthen plant cell walls. Silica hardens the leaf and helps strengthen the xylem vessels (stem) of plants. This is especially important during times of high transpiration which will reduce water loss and environmental stress in both plants and cuttings. Potassium silicate will significantly reduce the effects of salt stress on roots, stems and leaves of plants. Sil-Guard also contains Potassium Phosphite which promotes plant health and increases the plant's resistance to disease and pests. Potassium builds carbohydrate reserves. Nutrient uptake is increased through the leaf and root tissue with the addition of humic acid. It can be applied as a foliar application on all plant varieties. A continuous source of soluble silicate is very important to enhance the plants' resistance to sucking insects and promotes the natural defense to fungal diseases.

#### APPLICATION RECOMMENDATIONS:

Sil-Guard is used at the rate of 1% solution (1 gal. / 100 gal of water). One gallon of Sil-Guard will treat approximately one acre of field grown crops. Apply every 2 to 3 weeks throughout the season. Application with low volume sprayers is not recommended. Sil-Guard does not have to be watered in. However, you can water it in lightly without affecting the results.

#### STORAGE & HANDLING:

Stored in normal warehouse areas. **Keep from freezing.**

Mixing: Dilute at the rate of 1 to 100 in water if possible. Put half the water in the tank and add Sil-Guard. Sil-Guard is an alkaline material with a pH of 12 and should NOT be mixed with acidic or acid-producing chemicals.

The following mixing procedure should be followed after Sil-Guard has been diluted with appropriate amounts of water. Add products to mix in this order: 1. wettable powders, 2. flowables, 3. water solubles,

- Builds Stronger Cell Wall and Stems
- Slows Down Water Transpiration Rate
- Improves Chlorophyll under Low Light

4. surfactants, 5. emulsifiable concentrates. Be sure to agitate during each addition. Be sure each product is mixed well before adding the next. Apply all of mixture in same day. Always use a jar test before mixing Sil-Guard pesticides and fertilizers in your tank.

SIL-GUARD						
Fluid Ounces of Sil-guard per Gal of Stock Tank Mix						
PPM SiO <sub>2</sub>	25	50	75	100	150	200
1:500	19	38	57	76	114	X
1:300	11	22	34	44	66	88
1:200	7.5	15	23	30	45	60
1:100	4	7.5	11	16	24	32
1:50	2	4	5.6	8	12	16

Nursery Applications		
Application	Rate	Notes
Containerized and Field Grown Crops, (including but not limited to): Deciduous and Evergreen Trees, Foliage, Ornamental Grasses, Perennials, Tropicals, Woody Ornamentals	<b>Foliar Spray:</b> 2 - 4 qt per 100 gallons water. Apply 50 to 250 gal finished mix per acre (2 - 4 L per 400 L water)	Repeat the application every 30 days or as needed. Apply after transplanting
	<b>Continuous Feed:</b> 6 oz per 100 gallons of water (177ml per 400 L water)	
	<b>Soil Application:</b> 2 - 4 qt. per 100 gallons water (2-4 L per 400 L water)	

Greenhouse Foliar Spray Recommendation		
Application	Rate	Notes
For All Types of Greenhouse Crops	<b>Transplanting:</b> Mix 3 oz in 2.5 gallons of water (88 ml in 10 L water)	Soak plug tray or foliar spray after transplanting
	<b>Propagation:</b> 1 oz in 2.5 gallons of water (30 ml in 10 L water)	Apply at 2nd leaf stage, and then every 10-14 day intervals
	<b>Maintenance:</b> 0.3 - 1 ounce in 2.5 gal of water (9-30 ml in 10 L water)	Apply at 10-14 day intervals to supplement nutrient requirements

Ferns		
Plant Type:	Application Rate:	Frequency / Notes
Ferns	*1-2 quarts per acre (2.3 - 4.6 liters per hectare)	Apply after ferns are developed. Repeat every 30 days. <u>*Do not mix with other technical materials</u>

Crop Application Recommendations		
Crop	Rate	Application Timing / Intervals
<b>Bananas</b>	2-4 quarts per acre (2-3 liters per hectare)	Apply every 3-4 weeks throughout growing season. Do not apply during flowering.
<b>Berries</b> , such as (but not limited to): Blueberry, Blackberry, Raspberry, Strawberry		
<b>Bulb Vegetables</b> , such as (but not limited to): Onions, Garlic, Shallots		
<b>Citrus</b> , such as (but not limited to): Grapefruit, Lemons, Limes, Oranges, Pomelo, Tangelo, Tangerines		
<b>Cole Crops</b> , such as (but not limited to): Broccoli, Cauliflower, Cabbage, Brussels Sprouts, Collards		
<b>Cucurbits</b> , such as (but not limited to): Cucumber, Cantaloupe, Squash, Pumpkin, Melons		
<b>Field Crops</b> , such as (but not limited to): Barley, Corn, Oats, Peanut, Rice, Soybean, Sugar Beet and Wheat.		
<b>Fruiting Vegetables</b> , such as (but not limited to): Peppers, Tomato, Eggplant, Okra, Tomatillo		
<b>Grapes</b> , such as (but not limited to): Wine and Table Grapes		
<b>Grasses</b> Grown for Seed, Sod Production, Pasture, Forage and Alfalfa		
<b>Herbs and Spices</b> , such as (but not limited to): Coriander, Basil, Chives, Dill, Rosemary, Sage & Mint		
<b>Leafy Vegetables</b> , such as (but not limited to): Lettuce, Celery, Spinach, Parsley, Radicchio		
<b>Legumes and Pulses</b> , such as (but not limited to): Beans, Green Beans, Snap Beans, Lentils, Peas		
<b>Root, Tuber and Corm Vegetables</b> , such as (but not limited to): Carrot, Potato, Sweet Potato, Beets, Ginger, Radish, Ginseng, Turnip		
<b>Tree Fruits and Nuts</b> , such as (but not limited to): Almond, Apple, Apricot, Cacao, Cherry, Coffee, Filbert, Nectarine, Olive, Peach, Pear, Pecan, Pistachio, Plum, Prune, Quince and Walnut		
<b>Tropical / Sub Tropical Fruits</b> , such as (but not limited to): Avocados, Coffee, Dragon Fruit, Durian, Mangos, Papaya, Pineapples, Rubber Trees		

**CAUTION:** Keep out of reach of children. In case of contact with eyes, flush immediately with copious amounts of water. Contact a physician. Do not take internally.

**Condition of Sale and Warranty:** Growth Products, Ltd. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Handling, storage and use of the product by Buyer or User are beyond the control of Growth Products, Ltd. and Seller. Risks such as crop injury or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by Buyer or User. IN NO CASE WILL GROWTH PRODUCTS, LTD. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

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